(200)

TRACE ELEMENTS

TOTIM -NO. 1009

EXPLANATION

PRELIMINARY GEOLOGIC MAP OF THE PARIA PLATEAU SW QUADRANGLE, COCONINO COUNTY, ARIZONA BY

JOHN D. WELLS

THIS MAP CONCERNS WORK DONE BY THE U.S.

GEOLOGICAL SURVEY ON BEHALF OF THE DIVISION OF

DEPARTMENT OF THE INTERIOR

Prospect

Structural geology

The western boundary of this quadrangle is a few miles east of the northtrending East Kaibab monocline. The regional dip is about 180 feet per mile (2°) toward the north-northeast. The low amplitude anticline shown in the southwest corner of the quadrangle extends southwestward across the adjacent quadrangle. This anticline is flanked to the east and west by similar low amplitude synclines in the next quadrangles. The faulted area in the northwest corner extends northwestward a few miles into the two adjacent quadrangles. The amount of offset on the faults in the quadrangle is not known except for the small ones on Vermilion Cliffs, which have a maximum of 5 to 10 feet displacement. The fault zone generally consists of a zone of fracturing several feet wide. The short fault in the northeastern part consists of a complex fracture zone in which the fractures stand up as small resistant ridges.